

draw
CLAIMS

1. A process for restructuring keratin fibers, characterized in that
(A) at least one enzyme of the transglutaminase type and
(B) at least one active substance with substrate activity for the enzyme
are applied to the fibers.
2. A process as claimed in claim 1, characterized in that the enzyme is
5 a calcium-independent transglutaminase.
3. A process as claimed in claim 1 or 2, characterized in that the active
substance with substrate activity is a protein or a protein hydrolyzate.
4. A process as claimed in claim 3, characterized in that the active
substance with substrate activity is selected from casein, soya protein and
10 wheat protein.
5. A process as claimed in claim 1 or 2, characterized in that the active
substance with substrate activity is an active substance synthetically
functionalized with an H_2N-R group or an $H_2N-(CO)-R'$ group, where R and
R' stand for an unbranched C_{1-8} alkylene group.
- 15 6. A process as claimed in claim 5, characterized in that the active
substance with substrate activity carries at least one $H_2N-(CH_2)_4$ group.
7. A process as claimed in claim 5, characterized in that the active
substance with substrate activity carries at least one $H_2N-(CO)-CH_2-CH_2$
group.
- 20 8. A process as claimed in any of claims 1 to 7, characterized in that
the enzyme preparation is applied to the fibers together with the active
substance with substrate activity.
9. A process as claimed in any of claims 1 to 8, characterized in that
the contact time is 3 to 120 minutes.
- 25 10. The use of (A) at least one enzyme of the transglutaminase type and
(B) at least one active substance with substrate activity for the enzyme for
restructuring keratin fibers.
11. The use of (A) at least one enzyme of the transglutaminase type and

WO 01/21139

23

PCT/EP00/08924

(B) at least one active substance with substrate activity for the enzyme for setting keratin fibers.

12. A two-part kit for restructuring keratin fibers, characterized in that it contains (a) a composition containing an active substance with substrate
5 activity and (b) a composition containing an enzyme of the transglutaminase type.

Adopt